

Growing Success

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Growing Success Organics Limited
Wessex House, Units 1-3 Hilltop Business Park
Devizes Road, Salisbury, Wiltshire, SP3 4UF
Tel: 01722 337744

HEALTH AND SAFETY DATA SHEET

DEAD FAST SODIUM CHLORATE WEEDKILLER

1 Identification of Substance and Supplier

Product Name: DeadFast Sodium Chlorate Weedkiller
Product Description: Total herbicide powder for non-crop land
Supplier: Growing Success Organics Ltd
Wessex House
Units 1 – 3 Hilltop Business Park
Devizes Road
Salisbury
Wiltshire
SP3 4UF
Tel: (0044) 01722 337744
Fax: (0044) 01722 333177

2 Composition

Description: Mixture of inorganic salts.

Hazardous Ingredients	CAS No:	% Range	Hazard	Risk No.
Sodium Chlorate	7775-09-9	52	Oxidising/Harmful	9, 22
Sodium Chlorate	7647-14-5	48		

3 Hazard Identification

This product is classified as OXIDISING/HARMFUL under the Chemicals (Hazard Information and Packaging) regulations 1996.

4 First Aid

Inhalation: Remove from exposure. Restore breathing if necessary and keep at rest. Seek immediate medical attention.

Skin Contact: Remove all contaminated clothing immediately and launder thoroughly before re-use. Wash skin with soap and water.

Eye Contact: Flush well with water for at least 10 minutes and seek medical advice.

Ingestion: Do NOT induce vomiting. If conscious, rinse mouth with water and give two or more glasses of water or milk immediately. Seek immediate medical attention.

Medical Note: Risk of methemoglobinemia – do not treat with methylthionine.

5 Fire-Fighting Measures

Sodium chlorate liberates oxygen easily when heated and may cause fire or explosions in contact with combustible material. Toxic and explosive gases are produced in reaction with strong acid. Containers near heat source must be removed immediately and /or cooled with water.

Extinguishing Media: Water in jets and fog. **NO FOAM.**
Protective Equipment: Self contained breathing apparatus, protective clothing, boots and PVC gloves.

6 Accidental Release Measures

Remove any ignition source. Wear PVC gloves, face mask, goggles and protective clothing. Avoid making dust. Absorb spillage in an inert material such as damp earth or sand and place in a suitable non-metallic container. Never use sawdust or similar materials. Remove containers to a safe place for disposal in an approved manner.

Sodium Chlorate is a total weedkiller. It should be kept away from drains and surface water.

7 Handling & Storage

The instructions given in Guidance Note CS3: 'Storage and use of Sodium Chlorate and other similar strong oxidants' published by the HSE must be followed.

Keep out of reach of children.

Wear suitable protective clothing, PVC gloves, face mask and goggles.

Avoid making dust.

Avoid contact with combustible materials.

Avoid all sources of ignition.

Store in original container only.

8 Exposure Controls and Personal Protection

For the purpose of Regulation 7 (1) of the COSHH Regulations the limits are advised in EH40/91 by HSE. Further information is given in HSE Guidance Note CS3 and EH44. Always consult the label before use.

Ingredient: Sodium Chlorate.
O.E.S.: LD₅₀ (oral) rat = 1200mg/Kg, Lethal dose to man: 10-20g (for adult) 4g (for child), 8 hour (TWA) period, Total inhalable dust = 10mg/m³, Respirable dust = 5mg/m³.
Respirators: Wear suitable face mask/respirator.
Gloves: Wear PVC gloves.
Eye Protection: Wear safety goggles.
Protective Clothing: Wear non-absorbent clothing. Aprons should be made of PVC or rubber. Working clothing should be washed daily in water based laundry systems.

9 Physical and Chemical Properties

Appearance: White Crystals/Powder.
Odour: Odourless.
pH Value: For all aqueous solutions, pH is approximately 7
Melting point: 248°C
Solubility in water: 50%w/w at 20°C
Bulk Density: 1500Kg/m³.
Decomposition Temperature: Approximately 300°C

10 Stability and Reactivities

Strong oxidising agent. Decomposes easily when in contact with combustible material due to friction or impact. Attacks metals, especially in the presence of moisture. With strong acids, chlorine and chlorine dioxide are evolved. Liberates oxygen readily when heated and can burn with explosive violence when fuels or organic materials are present. The decomposition products will be formed from these types of materials and may include oxides of nitrogen and carbon.

Avoid storing in the presence of combustible materials and ignition sources. Avoid contact with strong acids, flammable solvents, ammonium salts, amines, phosphorus, sulphur and sulphur containing compounds, cyanides, powdered metals and metallic oxides.

11 Toxicological Information

Inhalation:	Harmful.
Eye contact:	Irritating.
Skin Contact:	Irritating.
Ingestion:	Risk of blood and kidney damage.

12 Ecological Information

Sodium chlorate is very soluble in water and will therefore disperse quickly. The breakdown products are sodium chloride (common salt) and oxygen. There is no bio-accumulative potential. Data so far indicates that sewage plants should not have a serious problem with sodium chlorate at the anticipated concentration levels.

Toxicity to water organisms:	LC ₅₀ (96h) > 1000mg/L
Threshold limit to fish:	11000mg/L
Non-selective toxicity to plants:	very toxic to brown algae.

13 Disposal Considerations

Dispose by landfill or controlled incineration in an open area.

It should be noted that sodium chlorate is included in Schedule 1 of S.I. 1709 and needs special disposal procedures.

14 Transport Information

See HSE Guidance Note CS3.

UN No.:	1495
ADR:	Class 5.1
Conveyance Classification:	OXIDISING SUBSTANCE.
MAFF Approval No.:	04281/06512
Emergency Action Code:	1YE
Hazard Identification No.:	50
Packaging Group:	II
Marine Pollutant:	Not stated.

15 Regulatory Information

Label for supply:	OXIDISING/HARMFUL
Risk Phrases:	9, 22
Safety Phrases:	Explosive when mixed with combustible material. Harmful if swallowed. 2, 13, 17, 46 Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep away from combustible material. If swallowed, do not induce vomiting; seek medical advice immediately and show container or label.

16 Other Information

Recommended uses: Total herbicide for non-crop land.

HSE publications are available from good booksellers or mail order from: HSE Books
PO Box 1999
Sudbury
Suffolk
CO10 6FS
Tel: 01787 881165
Fax: 01787 313995

Health and Safety Enquiries: HSE Infoline Tel: 0541 545500 or write to: HSE Information Centre
Broad Lane
Sheffield
S3 7HQ

EMERGENCY TELEPHONE NUMBERS:

Birmingham: 0121 554 3801
Edinburgh: 0131 229 2477 or 0131 228 2441 (View Data)
Leeds: 0113 243 0715 or 0113 243 2799
London: 0207 063 59191 or 0207 955 5095
Newcastle: 0191 232 5131

POISONS INFORMATION CENTRES NEVER CLOSE – TELEPHONE DAY OR NIGHT

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